VOLUME 3, 1993

SUBJECT INDEX

Adhesion, 127
Aluminum oxide particle, 117

Bio-materials, 223
Bioactive glass cement, 229
Bioactive material for artificial bone or teeth, 229
Biocompatibility, 223
Biomaterials, 51
Biomechanics, 1
Blood cell adhesion, 85
Blood compatibility, 85, 101
Bloodlines, 85
Bone apatite, 25
Bone strength, 25

Cantilever model, 67
Ceramics, 137
Clinical wear, 167
Collagen, 147
Compliance, 175
Composite, 137, 147
Compression testing, 15
Compression, 75
Contamination, 117
Cortical bone, 75

Dental composite materials, 167
Diamond-like carbon, 51, 223
Drug delivery system for skeletal tissue, 229
Drug release test, 229

Efficiency, 153
Electric motor, 153
Energy absorption, 15
ePTFE tubes, 101
Exercise, 25
External fixators, 57
Extracorporeal circulation systems, 85

Fast Fourier transform, 67
FEM, 57
Fluid perfusion, 101
Fluoride, 75
Football helmets, 15
Fractal dimension analysis, 117
Fracture toughness, 167

Head injury, 15
Heart valve, 51
Hemocompatibility, 51
Human cell culture, 223
Hydroxyapatite, 43, 137, 147, 229
Hydroxylapatite, 127

Impact testing, 15
Interfacial bonding, 75
Internal fixator, 33
Irradiation, 211

Joint contracture, 67

Left ventricular assist device, 153

Mechanical actuator, 153
Mechanical properties, 75, 211
Medical prothesis, 43
Meniscal grafts, 211
Metal ceramic system, 185
Multifunctional axial test, 175

Nitrided titanium, 185
Numerical analysis, 33

Optical rotary encoder, 153
Osteo-integration, 127
Oxidation, 185

Photodeposition, 43
Physiological hip implant, 1
Plasma spray coatings, 127
Plasma spray, 43
Platelet adhesion, 85
Porous material, 137
Porous materials, 85
Porous Ti, 127
Pressure, 147
Pure titanium, 185

Saline perfusion, 85, 101
Sandblasting, 117
Self-setting, bone cement, 229
Sintering, 147
Small caliber blood vessel, 175
Sodium naphthalenide, 101
Spine, 33
Sterilization, 211
Strain gauging, 1
Strain-gauges, 51
Stress relaxation, 175
Strontium, 25

Test methodology by internal pressure, 175
Thrombosis, 101
Transmission electron diffraction, 185
Tricalcium phosphate, 137

Viscoelastic property, 67, 175

X-ray diffraction, 117
X-ray, 185

AUTHOR INDEX

Akai, M., 67
Akao, M., 25
Aoki, H., 25

Baquey, Ch., 51
Basse Cathalinat, B., 51
Battocletti, J. H., 15
Baudet, E., 51
Brossa, F., 127

Chiesa, R., 127
Cigada, A., 127
Consonni, C., 127

Dion, I., 51
Drouin, G., 211

Guglielmino, E., 33, 57
Guzelsu, N., 75

Hashem, A., 117, 185
Hayashi, K., 153
Hirota, K., 147

Ichiki, M., 175
Ioku, K., 137
Itoh, M., 117

Jones, M. W., 223

Kim, S. S., 85, 101
Kokubo, T., 229
Kondo, K., 25
Kurosawa, H., 137

La Rosa, G., 33, 57
Labey, L., 1
Leonardi, W., 57
Lewis, G., 167
Longo, G. F., 57
Lu, L., 223

Matsuda, Y., 229
More, N., 51
Munoz, C. A., 117
Murakami, K., 199
Myers, T. J., 15

Nakamura, T., 153, 229
Nishihara, K., 147

Ohkuma, T., 175
Ohuchi, H., 175
Okayama, S., 25
Oshida, Y., 117, 185
Otsuka, M., 229

Paracchini, L., 127
Park, J. B., 85, 101
Pintar, F. A., 15

Reinartz, J., 15
Roques, X., 51
Russo, T. C., 33

Sances, Jr., A., 15
Shibuya, K., 137
Shirasaki, Y., 67

Tanaka, H., 147
Tateishi, T., 67
Torrisi, L., 43

Van Audekercke, R., 1
Van der Perre, G., 1
Vander Sloten, J., 1

Walsh, W. R., 75
Winkler, M. M., 117
Wu, R. L. C., 223

Yahia, L. H., 211
Yamamuro, T., 229
Yamane, H., 153
Yamasaki, N., 137
Yanagisawa, K., 137
Yoganandan, N., 15
Yokobori, Jr., A. T., 175
Yokobori, T., 175
Yokozeki, H., 137
Yoshihara, S., 229
Yoshinari, H., 175

Zukor, D., 211